

21. (New) The composition according to claim 20, wherein the number-average primary size of the nanoparticles is between 5 and 50 nm.

22. (New) The composition according to claim 20, wherein the nanoparticles comprising at least 10% by weight of alumina additionally comprise a metal or semimetal oxide other than alumina.

23. (New) The composition according to claim 22, wherein the metal or semimetal oxide is silicon oxide or boron oxide.

24. (New) The composition according to claim 20, wherein the nanoparticles comprise at least 50% by weight of alumina.

25. (New) The composition according to claim 20, wherein the nanoparticles are formed of more than 90% by weight of alumina.

26. (New) The composition according to claim 20, wherein the alumina is alumina or hydrated alumina.

27. (New) The composition according to claim 26, wherein the alumina is boehmite.

28. (New) The composition according to claim 20, wherein the amount of the nanoparticles is between 0.01 and 30% by weight with respect to the total weight of the composition.

29. (New) The composition according to claim 28, wherein the amount of the nanoparticles is between 0.05 and 5% by weight with respect to the total weight of the composition.

30. (New) The composition according to claim 20, wherein the propellant is dimethyl ether or a mixture containing dimethyl ether.

31. (New) The composition according to claim 20, wherein the propellant is present in an amount of between 2 and 90% by weight with respect to the total weight of the composition.

32. (New) The composition according to claim 31, wherein the propellant is present in an amount of between 40 and 80% by weight with respect to the total weight of the composition.

33. (New) The composition according to claim 20, wherein the cosmetically acceptable medium comprises water, a cosmetically acceptable solvent or water and a cosmetically acceptable solvent.

34. (New) The composition according to claim 33, wherein the solvent is a lower C₁-C₄ alcohol, a polyol, a polyol ether, acetone, or a mixture thereof.

35. (New) The composition according to claim 34, wherein the solvent is ethanol.

36. (New) The composition according to claim 33, wherein the water represents less than 20% by weight of the composition.

37. (New) The composition according to claim 20, wherein the liquid phase additionally comprises a cosmetic additive which is an adhesive agent, a reducing agent, a fatty substance, a thickening agent, a softener, an antifoaming agent, a screening agent, an antiperspirant, an acidifying agent, a basifying agent, a dye, a pigment, a fragrance, a preservative, a surfactant, a fixing or nonfixing polymer, a volatile or nonvolatile silicone, a vegetable, animal or mineral oil, a protein or vitamin, or mixtures thereof.

38. (New) The composition according to claim 37, wherein the composition further comprises a vinyllactam homopolymer or copolymer.

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39. (New) A process for the cosmetic treatment of hair, comprising applying to the hair and optionally rinsing the hair after an optional setting time a composition discharged from an aerosol device, the composition packaged in the aerosol device comprising in a cosmetically acceptable medium, nanoparticles comprising at least 10% by weight of alumina and having a number-average primary size of between 2 and 200 nm, and a propellant which is dimethyl ether, a C₃₋₅ alkane, 1,1-difluoroethane, a mixture of dimethyl ether and a C₃₋₅ alkane, a mixture of 1,1-difluoroethane and dimethyl ether or a C₃₋₅ alkane, or a mixture of 1,1-difluoroethane and dimethyl ether and a C₃₋₅ alkane.

40. (New) The process of claim 39, wherein the composition is a styling product.

41. (New) The process of claim 39, wherein the composition is a leave-in styling product.--

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